

	Type	L #	Hits	Search Text	Dbs	Time Stamp	Comments	Error Definition	Errors
1	BRS	L1	15096	staphylococcus adj aureus	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/12/01 14:23			0
2	BRS	L2	67	hop adj acid	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/12/01 14:23			0
3	BRS	L3	26	(hexahydro adj beta adj acid) or (hexahydro adj beta adj salt) or (tetrahydroiso adj alpha adj acid) or (tetrahydroiso adj alpha adj salt)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/12/01 14:23			0
4	BRS	L4	4	((hop adj acid ) or ((hexahydro adj beta adj acid) or (hexahydro adj beta adj salt) or (tetrahydroiso adj alpha adj acid) or (tetrahydroiso adj alpha adj salt) )) same (staphylococcus adj aureus)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/12/01 14:24			0
5	BRS	L5	65445	tampon or (wound adj dressing) or suppository or (disposable adj diaper) or (sanitary adj napkin)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/12/01 14:29			0
6	BRS	L6	32659 50	fiber or film or foam or wood or pulp or (peat adj moss) or (aborbent adj material) or (superabsorbent adj polymer)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/12/01 14:30			0

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Error
7	BRS	L7	0	(tampon or (wound adj dressing) or suppository or (disposable adj diaper) or (sanitary adj napkin)) same (fiber or film or foam or wood or pulp or (peat adj moss) or (aborbent adj material) or (superabsorbent adj polymer)) same ((hop adj acid ) or ((hexahydro adj beta adj acid) or (hexahydro adj beta adj salt) or (tetrahydroiso adj alpha adj acid) or (tetrahydroiso adj alpha adj salt) ))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/12/01 14:31			0

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Error
8	BRS	L8	8	(fiber or film or foam or wood or pulp or (peat adj moss) or (aborbent adj material) or (superabsorbent adj polymer)) same ((hop adj acid ) or ((hexahydro adj beta adj acid) or (hexahydro adj beta adj salt) or (tetrahydroiso adj alpha adj acid) or (tetrahydroiso adj alpha adj salt) ))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/12/01 14:31			0
9	BRS	L9	0	((fiber or film or foam or wood or pulp or (peat adj moss) or (aborbent adj material) or (superabsorbent adj polymer)) same ((hop adj acid ) or ((hexahydro adj beta adj acid) or (hexahydro adj beta adj salt) or (tetrahydroiso adj alpha adj acid) or (tetrahydroiso adj alpha adj salt) ))) same (staphylococcus adj aureus)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/12/01 14:34			0
10	BRS	L10	7386	lactobacillus	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/12/01 14:34			0

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Error Rows
11	BRS	L11	1	(staphylococcus adj aureus) same lactobacillus same ((hop adj acid ) or ((hexahydro adj beta adj acid) or (hexahydro adj beta adj salt) or (tetrahydroiso adj alpha adj acid) or (tetrahydroiso adj alpha adj salt) ))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/12/01 14:34			0

=> d his

(FILE 'HOME' ENTERED AT 14:59:23 ON 01 DEC 2002)

FILE 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH, AGRICOLA'  
ENTERED AT

14:59:57 ON 01 DEC 2002

L1 202 S HOP ACID  
L2 37 S (HEXAHYDRO BETA ACID) OR (HEXAHYDRO BETA SALT) OR  
(TETRAHYDRO  
L3 231 S L1 OR L2  
L4 206825 S STAPHYLOCOCCUS AUREUS  
L5 3 S L3 (P) L4  
L6 3 DUPLICATE REMOVE L5 (0 DUPLICATES REMOVED)  
L7 68280 S LACTOBACILLUS  
L8 1 S L6 (P) L7  
L9 3048335 S FIBER OR FILM OR FOAM OR WOOD OR PULP OR (PEAT  
MOSS) OR (ABSO  
L10 1 S L5 (P) L9  
L11 13119 S TAMPON OR (WOUND DRESSING) OR SUPPSITORY OR  
(DISPOSABLE DIAPE  
L12 1 S L5 (P) L11

=> log y

FILE 'HOME' ENTERED AT 14:59:23 ON 01 DEC 2002

=> file medline caplus biosis embase scisearch agricola

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'MEDLINE' ENTERED AT 14:59:57 ON 01 DEC 2002

FILE 'CAPLUS' ENTERED AT 14:59:57 ON 01 DEC 2002

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FILE 'BIOSIS' ENTERED AT 14:59:57 ON 01 DEC 2002

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FILE 'EMBASE' ENTERED AT 14:59:57 ON 01 DEC 2002

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FILE 'SCISEARCH' ENTERED AT 14:59:57 ON 01 DEC 2002

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FILE 'AGRICOLA' ENTERED AT 14:59:57 ON 01 DEC 2002

=> s hop acid

L1 202 HOP ACID

=> s (hexahydro beta acid) or (hexahydro beta salt) or (tetrahydroiso alpha acid) or (tetrahydrois  
4 FILES SEARCHED...

L2 37 (HEXAHYDRO BETA ACID) OR (HEXAHYDRO BETA SALT) OR (TETRAHYDROISO  
ALPHA ACID) OR (TETRAHYDROISO ALPHA SALT)

=> s l1 or l2

L3 231 L1 OR L2

=> s staphylococcus aureus

L4 206825 STAPHYLOCOCCUS AUREUS

=> s l3 (p) l4

L5 3 L3 (P) L4

=> duplicate remove l5

PROCESSING COMPLETED FOR L5

L6 3 DUPLICATE REMOVE L5 (0 DUPLICATES REMOVED)

=> d l6 1-3 ibib abs

L6 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2002:539564 CAPLUS

DOCUMENT NUMBER: 137:99058

TITLE: Antimicrobial diapers and wet wipes containing  
tetrahydroiso-.alpha. or hexahydroiso-.beta. acids

INVENTOR(S): Barney, Michael C.; Navarro, Alfonso; Ryder, David S.

PATENT ASSIGNEE(S): Miller Brewing Company, USA

SOURCE: PCT Int. Appl., 28 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002055119	A2	20020718	WO 2001-US51351	20011019

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,  
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,  
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT,  
RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ,

VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  
RW: GH, GM, KE, LS, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,  
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,  
BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2000-693123 A 20001020

AB Diapers and wet wipes for cleansing of infants are made anti-bacterial by the inclusion therein of \*\*\*hop\*\*\* \*\*\*acid\*\*\* derivs., specifically \*\*\*tetrahydroiso\*\*\* -. \*\*\*alpha\*\*\* . \*\*\*acid\*\*\* and \*\*\*hexahydro\*\*\* -. \*\*\*beta\*\*\* . \*\*\*acid\*\*\* . These compds. are effective in inhibiting the growth of gram-pos. bacteria, and specifically chosen to combat \*\*\*Staphylococcus\*\*\* \*\*\*aureus\*\*\* , a primary factor in toxic shock syndrome in infants. No growth or possibly weak growth of S. aureus was obsd. at \*\*\*tetrahydroiso\*\*\* -. \*\*\*alpha\*\*\* . \*\*\*acid\*\*\* or \*\*\*hexahydro\*\*\* -. \*\*\*beta\*\*\* . \*\*\*acid\*\*\* concns. as low as 1.56 ppm at a neutral pH.

L6 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2002:504661 CAPLUS  
DOCUMENT NUMBER: 137:68261  
TITLE: Antimicrobial hop acids for diapers and wet wipes  
INVENTOR(S): Barney, Michael C.; Navarro, Alfonso; Ryder, David S.  
PATENT ASSIGNEE(S): Miller Brewing Company, USA  
SOURCE: PCT Int. Appl., 14 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 2  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002051458	A2	20020704	WO 2001-US50963	20011019
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			

PRIORITY APPLN. INFO.: US 2000-693123 A 20001020

AB Diapers and wet wipes for cleansing of infants are made antibacterial by the inclusion therein of \*\*\*hop\*\*\* \*\*\*acid\*\*\* derivs., specifically \*\*\*tetrahydroiso\*\*\* - \*\*\*alpha\*\*\* \*\*\*acid\*\*\* and \*\*\*hexahydro\*\*\* - \*\*\*beta\*\*\* \*\*\*acid\*\*\* . These compds. are effective to inhibit the growth of gram-pos. bacteria, and specifically chosen to combat \*\*\*Staphylococcus\*\*\* \*\*\*aureus\*\*\* , a primary factor in toxic shock syndrome in infants.

L6 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:283780 CAPLUS  
DOCUMENT NUMBER: 134:300854  
TITLE: \*\*\*Hop\*\*\* \*\*\*acids\*\*\* used for inhibition of \*\*\*Staphylococcus\*\*\* \*\*\*aureus\*\*\*  
INVENTOR(S): Barney, Michael C.; Navarro, Alfonso L.; Ryder, David S.  
PATENT ASSIGNEE(S): Miller Brewing Company, USA  
SOURCE: PCT Int. Appl., 14 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001026647	A1	20010419	WO 2000-US27927	20001010
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK,			

SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG,  
KZ, MD, RU, TJ, T

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,  
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,  
CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

EP 1220665 A1 20020710 EP 2000-986192 20001010

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, SI, LT, LV, FI, RO, MK, CY, AL

PRIORITY APPLN. INFO.: US 1999-158810P P 19991012  
US 2000-664519 A 20000918  
WO 2000-US27927 W 20001010

AB The present invention provides methods, products, and compns. for selectively inhibiting the growth of *S. aureus* without preventing the growth of *Lactobacillus* species. Specifically, the present invention discloses the use of tetrahydroiso-.alpha.-acids or hexahydro-.beta.-acids at a concn. effective for the inhibition of the growth of *S. aureus* without preventing the growth of *Lactobacillus*. The inhibition of *S. aureus* thus provides useful methods, compns. and products such as feminine hygiene products for treating the diseases assocd. with *S. aureus* infections and infestations, i.e., toxic shock syndrome, without disrupting the normal bacterial flora in the area of its application. The results of MIC assay of tetrahydroiso-.alpha.-acids and hexahydro-.beta.-acids on *S. aureus* and *Lactobacillus* show that *S. aureus* was much more sensitive to tetrahydroiso-.alpha.-acids and hexahydro-.beta.-acids than the *Lactobacillus* species tested. *Lactobacillus* exhibited strong growth in concns. of tetrahydroiso-.alpha.-acids and hexahydro-.beta.-acids as high as 12.5 ppm.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s lactobacillus  
L7 68280 LACTOBACILLUS

=> d his

(FILE 'HOME' ENTERED AT 14:59:23 ON 01 DEC 2002)

FILE 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH, AGRICOLA' ENTERED AT 14:59:57 ON 01 DEC 2002

L1 202 S HOP ACID  
L2 37 S (HEXAHYDRO BETA ACID) OR (HEXAHYDRO BETA SALT) OR (TETRAHYDRO  
L3 231 S L1 OR L2  
L4 206825 S STAPHYLOCOCCUS AUREUS  
L5 3 S L3 (P) L4  
L6 3 DUPLICATE REMOVE L5 (0 DUPLICATES REMOVED)  
L7 68280 S LACTOBACILLUS

=> s l6 (p) l7

PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH  
FIELD CODE - 'AND' OPERATOR ASSUMED 'L44 (P) L37'  
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH  
FIELD CODE - 'AND' OPERATOR ASSUMED 'L48 (P) L39'  
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH  
FIELD CODE - 'AND' OPERATOR ASSUMED 'L50 (P) L40'  
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH  
FIELD CODE - 'AND' OPERATOR ASSUMED 'L52 (P) L41'  
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH  
FIELD CODE - 'AND' OPERATOR ASSUMED 'L54 (P) L42'  
L8 1 L6 (P) L7

=> s fiber or film or foam or wood or pulp or (peat moss) or (absorbent material) or ((superabsorb UNMATCHED LEFT PARENTHESIS 'OR ((SUPERABSO'  
The number of right parentheses in a query must be equal to the number of left parentheses.

=> s fiber or film or foam or wood or pulp or (peat moss) or (absorbent material) or (superabsorb  
L9 3048335 FIBER OR FILM OR FOAM OR WOOD OR PULP OR (PEAT MOSS) OR (ABSORBE  
NT MATERIAL) OR (SUPERABSORBENT POLYMER)

=> s l5 (p) l9

L10 1 L5 (P) L9



=> d l10 1 ibib abs

L10 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:283780 CAPLUS

DOCUMENT NUMBER: 134:300854

TITLE: Hop acids used for inhibition of Staphylococcus aureus  
INVENTOR(S): Barney, Michael C.; Navarro, Alfonso L.; Ryder, David S.

PATENT ASSIGNEE(S): Miller Brewing Company, USA

SOURCE: PCT Int. Appl., 14 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001026647	A1	20010419	WO 2000-US27927	20001010
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
EP 1220665	A1	20020710	EP 2000-986192	20001010
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL			

PRIORITY APPLN. INFO.: US 1999-158810P P 19991012  
US 2000-664519 A 20000918  
WO 2000-US27927 W 20001010

AB The present invention provides methods, products, and compns. for selectively inhibiting the growth of S. aureus without preventing the growth of Lactobacillus species. Specifically, the present invention discloses the use of tetrahydroiso-.alpha.-acids or hexahydro-.beta.-acids at a concn. effective for the inhibition of the growth of S. aureus without preventing the growth of Lactobacillus. The inhibition of S. aureus thus provides useful methods, compns. and products such as feminine hygiene products for treating the diseases assocd. with S. aureus infections and infestations, i.e., toxic shock syndrome, without disrupting the normal bacterial flora in the area of its application. The results of MIC assay of tetrahydroiso-.alpha.-acids and hexahydro-.beta.-acids on S. aureus and Lactobacillus show that S. aureus was much more sensitive to tetrahydroiso-.alpha.-acids and hexahydro-.beta.-acids than the Lactobacillus species tested. Lactobacillus exhibited strong growth in concns. of tetrahydroiso-.alpha.-acids and hexahydro-.beta.-acids as high as 12.5 ppm.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s tampon or (wound dressing) or suppsitory or (disposable diaper) or (sanitary napkin)  
L11 13119 TAMPON OR (WOUND DRESSING) OR SUPPSITORY OR (DISPOSABLE DIAPER)  
OR (SANITARY NAPKIN)

=> s 15 (p) l11  
L12 1 L5 (P) L11

=> d his

(FILE 'HOME' ENTERED AT 14:59:23 ON 01 DEC 2002)

FILE 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH, AGRICOLA' ENTERED AT  
14:59:57 ON 01 DEC 2002

L1 202 S HOP ACID  
L2 37 S (HEXAHYDRO BETA ACID) OR (HEXAHYDRO BETA SALT) OR (TETRAHYDRO  
L3 231 S L1 OR L2  
L4 206825 S STAPHYLOCOCCUS AUREUS

L5 3 S L3 (P) L4  
 L6 3 DUPLICATE REMO L5 (0 DUPLICATES REMOVED)  
 L7 68280 S LACTOBACILLUS  
 L8 1 S L6 (P) L7  
 L9 3048335 S FIBER OR FILM OR FOAM OR WOOD OR PULP OR (PEAT MOSS) OR (ABSO  
 L10 1 S L5 (P) L9  
 L11 13119 S TAMPON OR (WOUND DRESSING) OR SUPPSITORY OR (DISPOSABLE DIAPE  
 L12 1 S L5 (P) L11

=> log y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	79.41	79.62
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-2.48	-2.48

STN INTERNATIONAL LOGOFF AT 15:09:47 ON 01 DEC 2002